

Title (en)

MECHANICAL GRADIENT MAGNETIC FIELD GENERATOR

Title (de)

MAGNETFELDGENERATOR MIT MECHANISCHEM GRADIENTEN

Title (fr)

GÉNÉRATEUR DE CHAMP MAGNÉTIQUE À GRADIENT MÉCANIQUE

Publication

EP 4148449 A1 20230315 (EN)

Application

EP 21196248 A 20210913

Priority

EP 21196248 A 20210913

Abstract (en)

Disclosed herein is a mechanical gradient magnetic field generator (100, 500, 1600, 1700, 2000, 2112) comprising a field generating element (102) comprising at least one generator layer (104). Each of the at least one generator layer comprises: a stationary divider (106); a movable divider (108) configured for moving in one (110) or two (1602) displacement directions; a mechanical element (112) configured to mechanically assist movement of the movable divider in the one or two displacement directions towards an initial position (508); and a set of rotatable magnets (114) positioned between the movable divider and the stationary divider. The set of rotatable magnets are mechanically coupled to the movable divider and to the stationary divider. The mechanical coupling of the set of rotatable magnets is such that movement of the movable divider in the one or two displacement directions causes an individual rotation of each of the set of rotatable magnets.

IPC 8 full level

G01R 33/383 (2006.01); **G01R 33/385** (2006.01)

CPC (source: EP)

G01R 33/383 (2013.01); **G01R 33/385** (2013.01)

Citation (applicant)

US 2008054902 A1 20080306 - JUCHEM CHRISTOPH [DE]

Citation (search report)

- [IA] WO 2020096855 A1 20200514 - BIONAUT LABS LTD [IL], et al
- [XA] US 9774221 B1 20170926 - HOLLAND ERIC [US], et al
- [A] US 2009128272 A1 20090521 - HILLS BRIAN PHILIP [GB]
- [A] US 2015177343 A1 20150625 - WALD LAWRENCE L [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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